ANSUL.

ANSUL INCORPORATED
MARINETTE, WI 54143-2542

## MATERIAL SAFETY DATA SHEET

HALON 1301, FREON FE 1301

		golok ibertili ien (ili maili common Name)					
Manufacturer's Name:	ANSUL INCORPORATED	Emorgency CHEMTRAC Telephone No.: (800) 424-9300					
Address:	One Stanton Street, Marinette, WI 54143-2542	Other information (715) 735-7411 Calls:					
Propared By:	Safety and Health Department	Date Prepared: January 12, 1996					
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### SECTION 1 - IDENTITY

	c: (used on label) Halon 1301, Freon FE 1301 and Synonyms)	CAS No.:	75-63-8
Chemical Namo:	Bromotrifluoromethane	Chemical Family:	Halogenated Methane
Formula:	CBrF3	<del></del>	

## SECTION 2 - INGREDIENTS

PART A — HAZARDOUS INGREDIENTS	<del></del>			
Principal Hazardous Component(s) (chemical and common name(s)):	%	CAS No.	ACGIH TLV-TWA	Acule Toxicity Data
Bromotrifluoromethane Chemical Listed Under SARA Title III - Section 313	Greater than 99	75-63-8	1,000 ppm	ihi (rat) 211.2 mg/L 4 hrs.
WARNING: Contains bromotrifluoromethane (H				

#### PART B -- OTHER INGREDIENTS

Other Component(s) (chemical and common name(s)):	%	CAS No.	Acute Toxicity Data
None	N/A	N/A	N/A

SECTION 3 - PHYSICAL AND CHEMICAL CHARACTERISTICS (Fire and Explosion Data)

Boiling Point:	-72.0 °F				Specific Gravity (H2O = 1):	1.57	Vapor Pressure (mm Hg):	199.0 psi @70 °F
Percent Volatile by Volume (%):	100	Vapor Density (Air = 1):	5.2		Evaporation Rate ( = 1):	N/A Gas at temperature		
Solubility in Water:	Negligible				Reactivity in Water:	Unreactive		
Apponrance and Odor:	Coloriess gas	, sweet odor.	<del></del>	<del></del>		<del></del>	<u> </u>	
Flash Point:	None	Flammable Limits in Air % by Volum		/A	Extinguisher Media:	N/A	Auto-Ignition Temperature:	N/A
Special Fire Fighting Procedures:	contained bre	RE EXTINGUISH athing apparatuoroduct has bee	s with i	full face	Use water to cool piece and protect	fire-exposed ive clothing w	cylinders or o then re-enterin	ther containers. Self- ig unventilated fire
Unusual Fire and Explosion Hazards:	Containers ar conditions an	e equipped with d toxic decompo	pressu sition	ure and by-produ	temperature relie icts may be form	f devices, but ed if used in I	rupture may of fres over 900	occur under fire

# SECTION 4 - PHYSICAL HAZARDS

Stability:	Unstable The Conditions Decomposes under fire conditions above 900 °F. Stable Management Stable Stable Management Stable
Incompatibility (Materials to Avoid):	Active metals and fires involving metal hydrides.
Hazardous Decomposition Products	Thermal decomposition at temperatures above 900 °F forming hydrogen fluoride and hydrogen bro- mides. These by-products have a sharp irritating odor. They are dangerous even in low concentrations, and in sufficient concentrations can result in personal injury or death.
Hazardous	May Occur C Conditions N/A

JAN-26-2	UU7 FKI	02:38	B PM B	KUTEX	UEN	IKAL	INC		· ra	ΧN	U. It	152	528 <del>9</del> 4	łp			r. U
Thresisold Limit Value:	1000 ppm is removal fro	s the OS m expos	HA PEL ure. LC	and the a	ACG!H	TLV. N nan 800	enT :3TO mgq 000,	effects (v/v)4.h	of expo r.	sure	lo Halo	n 1301	should			ckly upo	
Roules of Entry: Eye Contact:	The liquid to	orm of th	is matei	ial can pr	roduce	chilling	sensations	and di	olmosa	rt.							
Skin Contact:	Evaporation	of liquid	from th	e skin ca	ın prod	uce chill	ing sensat	lions. Fi	rosibite	can c	occur.						
inhalation:	Vapor is he of vapor cai unconsclou	n cause	lighthea	dedness,	use sul giddin	focalion ess, sho	by reducing the state of the st	ng oxyg breath,	en avail and may	able y lead	for brea	athing. cosis,	Breath cardiac	ing ven irregul	/ high co arilies,	oncentra	llons
Ingestion:	Ingestion is	not likel	y to occ	ur since ll	his mai	lerial is (	gas at roor	n lemp	erature.		<del></del>			<del></del>		<del></del>	
Symptoms:	cule Overexpo		or even	death in i	high co	ncentra	reduced tions with	onger e	xposure	es.		ellects	can o	ccur. Ur	nconsci	ousness	
Chr	onic Overexpo	sure:	None kr	own whe	и осси	pational	exposure	s are be	olow the	TLV	•						
Medical Conditions Aggravated by Exp			Cardiac	problems	3.												
Chemical Listed as or Potential:	3 Carcinogen		Natio Prog	mal Toxico ram:	ology	Yes [] No ⊠	I.A.FI. Mono	C. graphs:	Yes [ No 🗵		OSHA:	Yes No					
SECTION 6 -	<b>EMERGE</b>	NCY A	ND FI	RST AIE	) PRO	CEDU	JRES										
Eye Confact:	Immediately sensation de	flush ev	es with	plenty of	water f	or at lea	st 15 minu	iles whi necess:	le holdir ary.	ng lid	s open.	lf redi	ness, ito	ching or	a burni	ng	
Skin Contact:	Wash the ma	aterial of Medical a	if the ski attention	n with cop . Treat io	pious a ir frostb	mounts lite if ne	of soap ai cessary.	nd wate	r for at l	east	15 minu	ıles. if	rednes	s, itchi	ng, or bi	uming	
inhalation:	Remove vict respiration, p	im to fre referabl	sh air. II Iy mouth	cough or I-lo-mouth	r other h. If bre	respirat athing i	ory sympto s difficult, (	ome occ give oxy	ur, cons /gen. Co	sult M onsul	ledical   t Medic	persor al pers	nel, if i sonnel.	not brea	ithing, g	ive artific	ciai
Ingestion:	Ingestion is	not likely	to accu	r since th	nis mate	erial is g	as at roon	tempe	rature.								
NOTE TO PHYSICIAN:	Product is an as drugs. Do NOT	plixlant an allow wetin	d can Indu n to exerci	ice cardiac n se until 24 h	nuscle se aurs follo	nsitization wing spec	r to circulating lific exposure	g epineph s, Freeze	rine-like co burns of n	ompou nucosi	nds. Do N al tissue c	OT give an deve	adrenali lop follow	n or similaring speci	ar sympati Ic exposu	nomirnetlo res.	
SECTION 7 -	SPECIAL	PROT	ECTIO	N INFO	PMA	TION											
Respiratory Protection Type);	tion Not no	ormally r	recessa		ers alo	adequa	te. For hig	h conce	entration	15 OX	ceeding	10%,	ar if ex	posure	is prolo	nged, us	Θ
v untilation:	Local Exhau			ided to co See med			Mechanical (General):		mmend collect.	ed in	low are	as or l	indoors	where	vapors		
rolective Gloves:	-	il worki					Eye Protection:	splas	hing of i	iquid	form is	possil	ble.			ldition if	
Other Protective Clothing or Equipa		ash and	salely s	howers a	re goo	d salety	practice in	n work a	reas wi	hen w	vorking	with lic	quelled	produc	L		
SECTION 8 -	SPECIAL	PREC	AUTIO	NS AN	D SPI	LL/LE	AK PRO	CED	JRES	-, <del>-</del>							
Precautions to be in Handling and St	Taken	Store a not cor	s a lique nected	fied com to a syste	presse em, it m	d gas in just be s	DOT app safely capp	roved p ced to p	ressure rolect a	vesş gains	els awa t actual	y from tion of	high le valve a	emperal	lures. If ase of e	cylinder gent.	is
Other Precautions:		Note in	compati	bility info	rmation	in Sect	lon 4.				·						
Steps to be Taken Material is Release	in Case ed or Spilled:	Evacus flames.		ventilate	to out	side alm	osphere	Cool or	remove	hot,	melal s	urface	s or sol	irce of	non-exti	nguishe	d
Waste Disposal Methods:		Dispos	e of in c	ompliance	e with i	ocal, sta	ate, and fe	deral re	gulation	16.							
							- <del></del>		,								
HAZARDOUS	MATERIA	L IDE	NTIFIC	ATION	SYS	ГЕМ Я	ATINGS	3									<sub>1</sub>
HAZARD INDEX: 4 Severe Hazard	;		HEALT												, .		
3 Serious Hazard 2 Moderale Hazard 1 Slight Hazard			FLAMM														
inimal Hazard		0	REACT	IVITY													l

4 Not Applicable

NDA = No Data Available